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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/751,523	01/06/2004	Takaki Yoshida	60188-745 3277		
7590 09/26/2006			EXAMINER		
Jack Q. Lever, Jr.			KIK, PHALLAKA		
McDERMOTT 600 Thirteenth	, WILL & EMERY Street. N.W.	ART UNIT	PAPER NUMBER		
Washington, DC 20005-3096			2825		
			DATE MAILED: 09/26/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)					
			23	YOSHIDA, TAKAKI					
	Office Action Summary	Examine	r	Art Unit					
		Phallaka	Kik	2825					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHI WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum statue to reply within the set or extended period for reply we reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF TI F37 CFR 1.136(a). In no ex- nication. utory period will apply and v ill, by statute, cause the app	HIS COMMUNICATION vent, however, may a reply be tim vill expire SIX (6) MONTHS from plication to become ABANDONEL	I. lely filed the mailing date of this communication (35 U.S.C. § 133).					
Status				•					
2a)□	Responsive to communication(s) filed This action is FINAL . 2b Since this application is in condition for closed in accordance with the practice	o)⊠ This action is r or allowance excep	non-final. for formal matters, pro		is				
Dispositi	on of Claims								
5)☐ 6)☒ 7)☒ 8)☐ Applicati 9)☐ 10)☒	Claim(s) 1-11 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 10 and 11 is/are rejected. Claim(s) 1-9 is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the The drawing(s) filed on 06 January 200 Applicant may not request that any objection of the oath or declaration is objected to be the The oath or declaration is objected to be the oath of the oath of the oath or declaration is objected to be the oath of the oath oath of the oath of the oath oath oath oath oath oath oath oath	e withdrawn from coon and/or election of the drawing(s) the correction is required.	requirement. repted or b) objected be held in abeyance. See red if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121	(d).				
Priority u	inder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
2) Notice Notice Inform	e(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTo- nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 1/6/2004.	O-948)	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te					

Application/Control Number: 10/751,523

Art Unit: 2825

DETAILED ACTION

This Office Actions responds to the Application and IDS filed on 1/6/2004.
 Claims 1-11 are pending.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

3. Claims 1-11 are objected to because of the following informalities:

As per **claim 1**, "the number" (line 6) should be --a number-- for proper antecedent basis.

As per **claim 2**, "the step" (line 2) should be --a step-- and "the variation" (line 3) should be --a variation-- for proper antecedent basis.

As per **claim 5**, "the operation" (line 2) should be --an operation-- for proper antecedent basis.

As per **claim 6**, "the step" (line 2) should be --a step-- and "the operation" (line 3) should be --an operation-- for proper antecedent basis.

As per **claim 7**, "the step" (line 2) should be --a step-- for proper antecedent basis.

As per **claims 2-7**, the claims are also objected to for incorporating the above errors into the respective claims by claim dependency.

As per claim 8, "the number" (line 2) should be --a number-- for proper antecedent basis.

Application/Control Number: 10/751,523

Art Unit: 2825

As per **claim 9**, "the number" (line 6) should be --a number--; "the configuration" (lines 8 and 9) should be --a configuration-- for proper antecedent basis.

As per **claim 10**, "the number" (line 7) should be --a number-- for proper antecedent basis.

As per **claim 11**, "the number" (line 7) should be --a number--; "the configuration" (lines 9 and 10) should be --a configuration-- for proper antecedent basis.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 10-11 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter, wherein "the detecting program" and "the layout program" are directed to computer program per se which are not embodied in a computer-readable medium is non-statutory because they are not capable of causing functional change in the computer (see Warmerdam, 33 F. 3d at 1361, 31 USPQ2d at 1760).

Allowable Subject Matter

6. Claims 1-11 would be allowable if rewritten or amended to overcome the objections due to the noted informalities and the rejection(s) under 35 U.S.C. 101, set forth in this Office action.

Art Unit: 2825

7. The following is a statement of reasons for the indication of allowable subject matter:

As per claims 1-7,10, the independent claims 1 and 10, from which the respective claims depend, recite the error portion detecting method/program for a semiconductor integrated circuit, comprising the inventive steps/means of estimating a supply voltage variation level based on the number of circuit elements which is detected at the simultaneous-operation circuit element number detecting step based on the transition timing detecting step as claimed. In particular, the prior arts made of record teach various methods/systems of detecting transition timing and circuit layout having the particular transition timing (see especially **Khouja et al.**, U.S. Patent No. 6,345,379. especially Fig. 2 and col. 11, lines 23-63; Hathaway et al., U.S. Patent Application Publication No. 2003/0226122, especially paragraphs [0011]; Lin et al., U.S. Patent Application Publication No. 2003/0212538, especially paragraphs [0044]-[0047]; Thill, U.S. Patent No. 6,370,674, especially col. 7, line 66 to col. 8, line 25; Hathaway et al., U.S. Patent No. 6,615,395, especially col. 6, line 4 to col. 7, line 55; Sander et al., U.S. Patent No. 5,047,967, especially col. 7, lines 10-18; McElvain et al., U.S. Patent Application Publication No. 2006/0095872, especially paragraphs [0078], [0082], [0100], [0145]). However, none of the prior arts made of record, alone or in combination, teach the inventive steps/means as claimed. Accordingly, the claimed invention is novel and un-obvious over the prior arts made of record.

As per **claim 8**, the claim recites an error portion detecting method for a semiconductor integrated circuit comprising the inventive steps of estimating the supply

Application/Control Number: 10/751,523 Page 5

Art Unit: 2825

voltage variation level based on the number of detected at the circuit number detection step as claimed, which the prior arts made of record failed to teach or suggest. In particular, the prior arts made of record teach various methods/systems for detecting transition timing and circuit layout having the particular transition timing (see especially prior arts recited above). However, none of the prior arts made of record, alone or in combination, teach the inventive steps/means as claimed. Accordingly, the claimed invention is novel and un-obvious over the prior arts made of record.

As per claims 9,11, the claims recite the layout method/program for a semiconductor integrated circuit comprising the inventive steps/means of determining the configuration of the circuit elements or the configuration of the power supply lines based on the number of circuit elements which is detected at the simultaneous-operation circuit element number detecting, such that any of the circuit elements is supplied with the supply voltage through a power supply line different from the common power supply line, as claimed, which the prior arts made of record failed to teach or suggest. In particular, the prior arts made of record teach various methods/systems for detecting transition timing and circuit layout having the particular transition timing (see especially prior arts recited above). However, none of the prior arts made of record, alone or in combination, teach the inventive steps/means as claimed. Accordingly, the claimed invention is novel and un-obvious over the prior arts made of record.

Application/Control Number: 10/751,523 Page 6

Art Unit: 2825

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Therefore, Applicant is requested herein to consider them carefully in response to this Office Action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phallaka Kik whose telephone number is 571-272-1895. The examiner can normally be reached on Monday-Thursday, 8:30AM-7PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any response to this action should be mailed to:

Commissioner for Patents

P. O. Box 1450

Application/Control Number: 10/751,523

Art Unit: 2825

Alexandria, VA 22313-1450

or faxed to:

571-273-8300

Phallaka Kik

Primary Examiner September 16, 2006